

You Ain't Seen Nothin' Yet

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License Renewal

Decommissioning

Risk-informed Regulations

Nuclear Security



Commissioner Merrifield - 2007

New Reactors

Legal Reform – Alternate Dispute Resolution

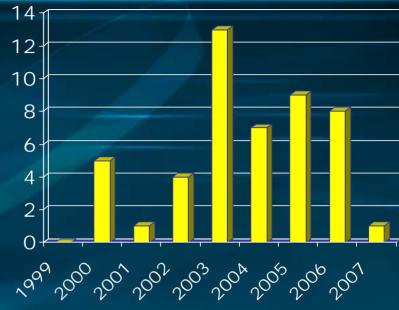
International Partnerships

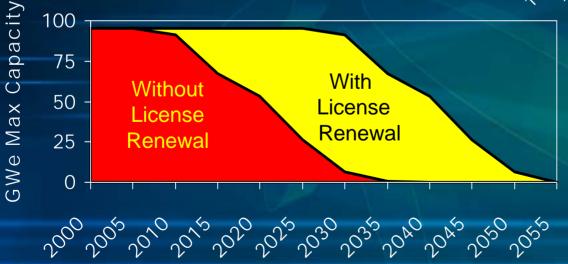
Communications



License Renewal Progress

NRC has approved 20-year license extensions for 48 units since 2000 (8 are pending in 2007)





U.S. nuclear plants will provide energy until 2055, if extensions for all 104 existing units are approved





Decommissioning

- -Improved regulation of legacy waste
- -Solid foundation for future reactors

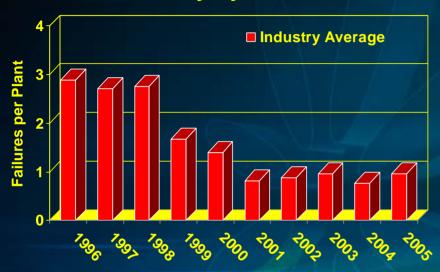
Reformed Legal Process

- -New cadre of judges
- -Revised Part 2
- -Alternate Dispute Resolution





Safety System Failures



Risk - Informed Regulation

- -New reactor oversight process
- -NFPA 805
- -Maintenance rule

International Partnerships

- -Tri-lateral agreement
- -Convention on Nuclear Safety
- -International Atomic Energy Agency







Nuclear Security

Most secure civilian infrastructure before and after 9/11/01

Communications

with the public, media, and the world

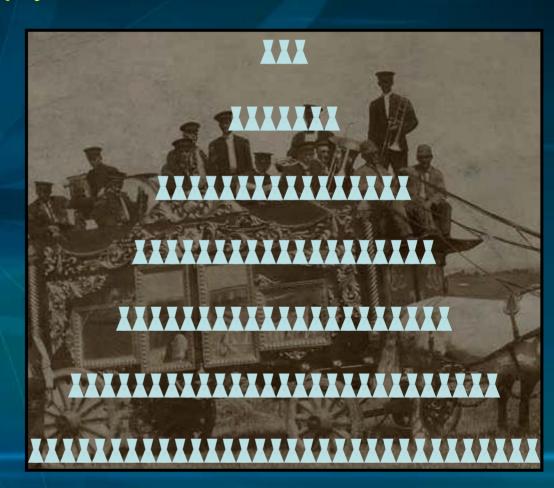




The Nuclear Bandwagon

Letters of intent to apply for a new reactor license:

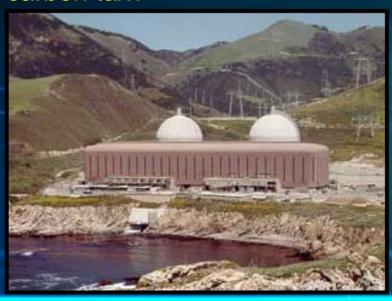
- December 2004 -- 3
- August 2005 -- 7
- November 2005 -- 16
- December 2005 -- 19
- April 2006 -- 21
- August 2006 -- 27
- March 2007 -- 32

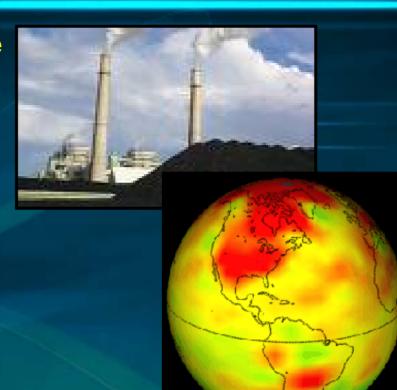




Time for New Nuclear Plants?

- Global warming today's number one environmental issue
- Renewable power will play a role, but still a long way off
- Cap and trade emissions program or carbon tax?





Nuclear power is the largest carbonfriendly source for baseload generating capacity



Nuclear Renaissance?

The number of U.S. nuclear power plants could potentially double in the next 30 years.





Merrifield's New Reactor Task Force

Goal: identify process improvements to reduce COL review schedules

Comprised of 10 senior NRC managers and staff

Recommendations to Chairman by the end of March 2007



New Reactor Task Force





Environmental Review Challenges

 The environmental process to satisfy NEPA is:

unnecessarily long

 too focused on potential litigation

 beyond the original intent of Congress





Hearing Process Challenges

- Mandatory hearing process is broken
- Congress should repeal mandatory hearing requirements



 Commission-led legislative-style hearings, if necessary



COL Review Process Challenges

Licensing review process

- Too long

- Too cumbersome

- Goal should be 24 – 26 months, after initial COL

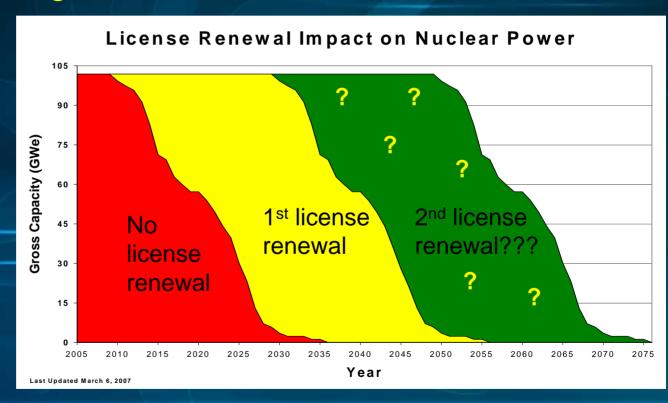


application reviews are complete



License Renewal

- Potential secure energy resource for future generations
- Technical challenges: Cables, Materials, Instrumentation
- 80 years of operation may be possible
- -NRC needs to prepare licensing framework

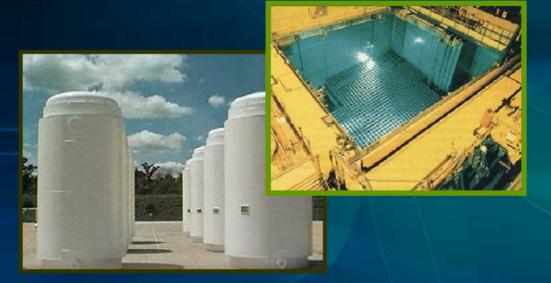


- Could spur long-term financing for plant upgrades



High Level Waste

- No real solution? wrong!
- Yucca Mountain is licensable
- Need proper project management





Spent fuel can be stored safely at new or current sites



International Partnerships

Thailand

Indonesia

Chile

Belarus

Egypt

Nigeria

Vietnam

Burma

Poland

Italy

Israel

Jordan

Morocco

Malaysia

Venezuela

Estonia

Turkey

Namibia

Qatar



International Partnerships

NRC must be proactive to help strengthen nuclear safety worldwide





We can learn from our partners

- CNS, IAEA, NEA



Conclusion

















- A decade of extraordinary change and renewal at the NRC
- NRC is second-to-none in pursuit of regulatory excellence
- Enormous challenge to prepare for potential doubling of the nuclear power plant fleet
- Potential extension of license to 80 years and high level waste resolution
- Leaving a solid foundation for NRC's future



...the End... ...and I feel fine!

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